

## CLAIMS

1. A signal processing system comprising first electronic means for storing an input signal, second means for a real-time processing of the input signal thus stored, and third  
5 electronic means for storing the signal thus processed, said system being further characterized in that the second processing means themselves comprise off-line signal enhancement means applied to said input signal and using available processing resources, not still used for real-time or on-line processing, for delivering an enhanced signal and storing it in said third means for storing the signal processed by the second processing means.
- 10 2. A signal processing system according to claim 1, in which said signal enhancement means also comprise means for modifying said enhanced signal, said third electronic means for storing the processed signal being also able to store the enhanced signal thus modified.
3. A signal processing system according to anyone of claims 1 and 2, in which said  
15 third electronic means for storing the signal processed are provided for outputting the enhanced signal and/or the modified enhanced signal in real time.
4. A signal processing system according to claim 1, in which said signal enhancement means comprise one or a plurality of off-line signal processing functions the amount, quality and combination of which depend on the available processing power.
- 20 5. A signal processing system according to claim 1, in which said signal enhancement means comprise one or a plurality of off-line signal processing functions the amount, quality and combination of which depend on real-time constraints.
6. A signal processing system according to claim 1, in which said storing means are the video storage device of a home-video recording system, and the processor used for  
25 implementing the off-line signal enhancement function is a programmable part of the second means for a real-time processing of the stored input signal.